## What is claimed is:

- 1. A method of dyeing or printing synthetic polyamide fibre materials, wherein
- (a) the fibre material is dyed or printed with at least one reactive dye, and
- (b) the dyed or printed fibre material is subjected to after-treatment with a reducing agent, the fibre material not being treated with polycondensable or polymerisable compounds for fixing the dye on the fibre, and wherein blend fibres of polyester and polyamide are excluded.
- 2. A method according to claim 1, wherein there is used at least one reactive dye of formula

$$A-(Z)_k \tag{1}$$

## wherein

A is the radical of a monoazo, disazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine dye,

Z independently denotes k fibre-reactive substituents, which may be identical or different from one another, selected from the group of the vinylsulfonyl, acryloyl and heterocyclic series, and

k is a number 1, 2 or 3.

- 3. A method according to claim 2, wherein
- Z is -SO<sub>2</sub>-CH=CH<sub>2</sub> or -SO<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-U, wherein U is a leaving group,
- -CO-CH(Hal)-CH<sub>2</sub>(Hal) or -CO-C(Hal)=CH<sub>2</sub>, wherein Hal is chlorine or bromine, or a halotriazine radical, wherein the halogen is fluorine or chlorine.
- 4. A method according to any one of claims 1 to 3, wherein there is used, as reactive dye of formula (1), a reactive dye of formula

$$A - N \longrightarrow N$$

$$N \longrightarrow N$$

$$X$$
(1a)

wherein

R<sub>1</sub> is hydrogen or unsubstituted or substituted C<sub>1</sub>-C<sub>4</sub>alkyl,

X is halogen,

A is the radical of a monoazo, disazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine dye, and

V is a non-fibre-reactive substituent or is a fibre-reactive substituent of formula

$$\begin{array}{c}
R_3 \\
-N-alk-SO_2-Y \\
R_2
\end{array}$$
(2a),

$$-N$$
-arylene- $SO_2$ - $Y$ 
 $R_4$  (2c),

---N--arylene-(alk)
$$_{\rm n}$$
---W--alk $_{\overline{1}}$ --SO $_{\overline{2}}$ --Y (2d),

$$-N$$
  $N$ —alk— $SO_2$ - $Y$  (2e) or

$$-N - \text{N--alk-SO}_{2} - Y$$

$$-N - \text{arylene-NH--CO--Y}_{1}$$

$$R_{4}$$
(2e)

wherein

R₂ is hydrogen or unsubstituted or substituted C₁-C₄alkyl or a radical ——alk—SO₃—Y

wherein R<sub>3</sub> is as defined below,

R<sub>3</sub> is hydrogen, hydroxy, sulfo, sulfato, carboxy, cyano, halogen, C₁-C₄alkoxycarbonyl, C₁-C₄-alkanoyloxy, carbamoyl or a group -SO₂-Y,

R₄ is hydrogen or C₁-C₄alkyl,

alk and alk<sub>1</sub> are each independently of the other linear or branched  $C_1$ - $C_6$ alkylene, arylene is a phenylene or naphthylene radical which is unsubstituted or substituted by sulfo, carboxy, hydroxy,  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy or by halogen,

Y is vinyl or a radical -CH<sub>2</sub>-CH<sub>2</sub>-U and U is a leaving group,

Y<sub>1</sub> is a group -CH(Hal)-CH<sub>2</sub>(Hal) or -C(Hal)=CH<sub>2</sub> wherein Hal is chlorine or bromine,

W is a group -SO<sub>2</sub>-NR<sub>4</sub>-, -CONR<sub>4</sub>- or -NR<sub>4</sub>CO- wherein R<sub>4</sub> is as defined above,

Q is a radical -O- or -NR<sub>4</sub>- wherein  $R_4$  is as defined above, and n is a number 0 or 1.

- 5. A method according to claim 4, wherein R<sub>1</sub> is hydrogen.
- 6. A method according to either claim 4 or claim 5, wherein X is chlorine.
- 7. A method according to any one of claims 4 to 6, wherein V is a fibre-reactive substituent of formula (2a), (2b), (2c), (2d), (2e) or (2f) wherein  $R_2$ ,  $R_3$ ,  $R_4$ , alk, alk, arylene, Y, Y<sub>1</sub>, W, Q and n are as defined in claim 4.
- 8. A method according to any one of claims 1 to 7, wherein hydrosulfite is used as reducing agent.
- 9. A method according to any one of claims 1 to 8, wherein the after-treatment is carried out at a pH of from 7 to 12 and at a temperature of from 30 to 100°C.